

ANALYTICAL RESULTS

Project: FMC RCRA
Pace Project No.: 10316268

Sample: 507156		Lab ID: 10316268017		Collected: 07/30/15 12:40		Received: 07/31/15 10:00		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Cadmium	0.0045	mg/L	0.0030	0.00065	1	08/02/15 15:28	08/06/15 18:26	7440-43-9	
Potassium	1210	mg/L	25.0	1.3	10	08/02/15 15:28	08/10/15 09:22	7440-09-7	
6020 MET ICPMS Analytical Method: EPA 6020 Preparation Method: EPA 3020									
Arsenic	0.14	mg/L	0.00050	0.00011	1	08/02/15 15:41	08/07/15 17:45	7440-38-2	
Selenium	0.00023	mg/L	0.00050	0.00020	1	08/02/15 15:41	08/07/15 17:45	7782-49-2	
SM4500F-C Fluoride Analytical Method: SM 4500F/C									
Fluoride	0.12	mg/L	1.0	0.051	1		08/08/15 14:24	16984-48-8	
300.0 IC Anions Analytical Method: EPA 300.0									
Chloride	345	mg/L	6.0	3.0	5		08/01/15 01:31	16887-00-6	
Fluoride	41.6	mg/L	2.5	0.18	50		08/01/15 08:49	16984-48-8	
Nitrate as N	ND	mg/L	0.10	0.050	1		07/31/15 18:04	14797-55-8	
Sulfate	249	mg/L	6.0	3.0	5		08/01/15 01:31	14808-79-8	
350.1 Ammonia Analytical Method: EPA 350.1									
Nitrogen, Ammonia	9.8	mg/L	0.40	0.20	10		08/12/15 18:18	7664-41-7	
Phosphate, Ortho Low Level Analytical Method: SM 4500-P E									
Orthophosphate as P	181	mg/L	12.5	4.4	2500		07/31/15 17:16		

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Project: FMC RCRA
Pace Project No.: 10316268

Sample: 507157 A,B,C		Lab ID: 10316268019		Collected: 07/30/15 13:30		Received: 07/31/15 10:00		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Cadmium	0.0028J	mg/L	0.0030	0.00065	1	08/02/15 15:28	08/06/15 18:45	7440-43-9	
Potassium	299	mg/L	2.5	0.13	1	08/02/15 15:28	08/10/15 09:38	7440-09-7	M1
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3020									
Arsenic	0.090	mg/L	0.00050	0.00011	1	08/02/15 15:41	08/07/15 18:31	7440-38-2	
Selenium	ND J	mg/L	0.00050	0.00020	1	08/02/15 15:41	08/07/15 18:31	7782-49-2	
SM4500F-C Fluoride									
Analytical Method: SM 4500F/C									
Fluoride	0.27J	mg/L	1.0	0.051	1		08/08/15 14:59	16984-48-8	
300.0 IC Anions									
Analytical Method: EPA 300.0									
Chloride	241 J	mg/L	6.0	3.0	5		07/31/15 21:06	16887-00-6	M1
Fluoride	27.6 J	mg/L	5.0	0.36	100		07/31/15 21:51	16984-48-8	
Nitrate as N	ND J	mg/L	0.10	0.050	1		07/31/15 15:18	14797-55-8	M1
Sulfate	303	mg/L	6.0	3.0	5		07/31/15 21:06	14808-79-8	M1
350.1 Ammonia									
Analytical Method: EPA 350.1									
Nitrogen, Ammonia	2.3	mg/L	0.080	0.040	2		08/12/15 17:19	7664-41-7	
Phosphate, Ortho Low Level									
Analytical Method: SM 4500-P E									
Orthophosphate as P	44.2	mg/L	2.5	0.87	500		07/31/15 17:10		

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ANALYTICAL RESULTS

Project: FMC RCRA
Pace Project No.: 10316268

Sample: 507158 Lab ID: 10316268010 Collected: 07/29/15 19:05 Received: 07/31/15 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Cadmium	ND	mg/L	0.0030	0.00065	1	08/02/15 15:28	08/06/15 17:13	7440-43-9	
Potassium	20.6	mg/L	2.5	0.13	1	08/02/15 15:28	08/04/15 23:03	7440-09-7	
6020 MET ICPMS Analytical Method: EPA 6020 Preparation Method: EPA 3020									
Arsenic	0.012	mg/L	0.00050	0.00011	1	08/02/15 15:41	08/07/15 17:04	7440-38-2	
Selenium	0.0048	mg/L	0.00050	0.00020	1	08/02/15 15:41	08/07/15 17:04	7782-49-2	
300.0 IC Anions Analytical Method: EPA 300.0									
Chloride	105	mg/L	12.0	6.0	10		07/31/15 23:46	16887-00-6	
Fluoride	0.16	mg/L	0.050	0.0036	1		07/31/15 16:03	16984-48-8	
Nitrate as N	3.0	mg/L	0.10	0.050	1		07/31/15 16:03	14797-55-8	
Sulfate	578	mg/L	12.0	6.0	10		07/31/15 23:46	14808-79-8	
350.1 Ammonia Analytical Method: EPA 350.1									
Nitrogen, Ammonia	ND	mg/L	0.040	0.020	1		08/12/15 15:52	7664-41-7	
Phosphate, Ortho Low Level Analytical Method: SM 4500-P E									
Orthophosphate as P	0.10	mg/L	0.0050	0.0017	1		07/31/15 16:59		

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ANALYTICAL RESULTS

Project: FMC RCRA
Pace Project No.: 10316268

Sample: 507165 Lab ID: 10316268008 Collected: 07/29/15 17:40 Received: 07/31/15 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Cadmium	ND	mg/L	0.0030	0.00065	1	08/02/15 15:28	08/06/15 17:00	7440-43-9	
Potassium	13.2	mg/L	2.5	0.13	1	08/02/15 15:28	08/04/15 22:50	7440-09-7	
6020 MET ICPMS Analytical Method: EPA 6020 Preparation Method: EPA 3020									
Arsenic	0.023	mg/L	0.00050	0.00011	1	08/02/15 15:41	08/07/15 16:55	7440-38-2	
Selenium	0.0064	mg/L	0.00050	0.00020	1	08/02/15 15:41	08/07/15 16:55	7782-49-2	
300.0 IC Anions Analytical Method: EPA 300.0									
Chloride	310	mg/L	6.0	3.0	5		07/31/15 22:39	16887-00-6	
Fluoride	0.21	mg/L	0.050	0.0036	1		07/31/15 15:33	16984-48-8	
Nitrate as N	4.9	mg/L	0.10	0.050	1		07/31/15 15:33	14797-55-8	
Sulfate	193	mg/L	6.0	3.0	5		07/31/15 22:39	14808-79-8	
350.1 Ammonia Analytical Method: EPA 350.1									
Nitrogen, Ammonia	ND	mg/L	0.040	0.020	1		08/12/15 15:50	7664-41-7	
Phosphate, Ortho Low Level Analytical Method: SM 4500-P E									
Orthophosphate as P	0.28	mg/L	0.050	0.017	10		07/31/15 16:57		

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ANALYTICAL RESULTS

Project: FMC RCRA
Pace Project No.: 10316268

Sample: 507166		Lab ID: 10316268002		Collected: 07/29/15 12:40		Received: 07/30/15 10:00		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Cadmium	0.00096	mg/L	0.0030	0.00065	1	08/01/15 14:53	08/03/15 01:22	7440-43-9	
Potassium	45.7	mg/L	2.5	0.13	1	08/01/15 14:53	08/03/15 01:22	7440-09-7	
6020 MET ICPMS Analytical Method: EPA 6020 Preparation Method: EPA 3020									
Arsenic	0.018	mg/L	0.00050	0.00011	1	08/01/15 14:37	08/07/15 03:43	7440-38-2	
Selenium	0.0057	mg/L	0.00050	0.00020	1	08/01/15 14:37	08/07/15 03:43	7782-49-2	
300.0 IC Anions Analytical Method: EPA 300.0									
Chloride	257	mg/L	24.0	12.0	20		07/30/15 23:09	16887-00-6	
Fluoride	0.67	mg/L	0.050	0.0036	1		07/30/15 20:48	16984-48-8	
Nitrate as N	43.4	mg/L	2.0	1.0	20		07/30/15 23:09	14797-55-8	
Sulfate	237	mg/L	24.0	12.0	20		07/30/15 23:09	14808-79-8	
350.1 Ammonia Analytical Method: EPA 350.1									
Nitrogen, Ammonia	ND	mg/L	0.040	0.020	1		08/10/15 10:22	7664-41-7	
Phosphate, Ortho Low Level Analytical Method: SM 4500-P E									
Orthophosphate as P	0.31	mg/L	0.010	0.0035	2		07/30/15 16:32		

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ANALYTICAL RESULTS

Project: FMC RCRA
Pace Project No.: 10316268

Sample: 507167 Lab ID: 10316268009 Collected: 07/29/15 18:20 Received: 07/31/15 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Cadmium	0.000900	mg/L	0.0030	0.00065	1	08/02/15 15:28	08/06/15 17:07	7440-43-9	
Potassium	13.1	mg/L	2.5	0.13	1	08/02/15 15:28	08/04/15 22:56	7440-09-7	
6020 MET ICPMS Analytical Method: EPA 6020 Preparation Method: EPA 3020									
Arsenic	0.044	mg/L	0.00050	0.00011	1	08/02/15 15:41	08/07/15 16:59	7440-38-2	
Selenium	0.0019	mg/L	0.00050	0.00020	1	08/02/15 15:41	08/07/15 16:59	7782-49-2	
300.0 IC Anions Analytical Method: EPA 300.0									
Chloride	142	mg/L	2.4	1.2	2		07/31/15 22:58	16887-00-6	
Fluoride	0.93	mg/L	0.050	0.0036	1		07/31/15 15:48	16984-48-8	
Nitrate as N	0.0610	mg/L	0.10	0.050	1		07/31/15 15:48	14797-55-8	
Sulfate	149	mg/L	2.4	1.2	2		07/31/15 22:58	14808-79-8	
350.1 Ammonia Analytical Method: EPA 350.1									
Nitrogen, Ammonia	ND	mg/L	0.040	0.020	1		08/12/15 15:51	7664-41-7	
Phosphate, Ortho Low Level Analytical Method: SM 4500-P E									
Orthophosphate as P	5.5	mg/L	0.50	0.17	100		07/31/15 16:58		

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ANALYTICAL RESULTS

Project: FMC RCRA
Pace Project No.: 10316268

Sample: 507168		Lab ID: 10316268004		Collected: 07/29/15 14:50		Received: 07/30/15 10:00		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Cadmium	0.0010	mg/L	0.0030	0.00065	1	08/01/15 14:53	08/03/15 01:33	7440-43-9	
Potassium	25.0	mg/L	2.5	0.13	1	08/01/15 14:53	08/03/15 01:33	7440-09-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3020									
Arsenic	0.022	mg/L	0.00050	0.00011	1	08/01/15 14:37	08/07/15 03:52	7440-38-2	
Selenium	0.064	mg/L	0.00050	0.00020	1	08/01/15 14:37	08/07/15 03:52	7782-49-2	
300.0 IC Anions									
Analytical Method: EPA 300.0									
Chloride	53.9	mg/L	1.2	0.60	1		07/30/15 21:49	16887-00-6	
Fluoride	3.7	mg/L	0.050	0.0036	1		07/30/15 21:49	16984-48-8	
Nitrate as N	22.3	mg/L	1.0	0.50	10		07/30/15 23:27	14797-55-8	
Sulfate	1320	mg/L	24.0	12.0	20		07/31/15 04:42	14808-79-8	
350.1 Ammonia									
Analytical Method: EPA 350.1									
Nitrogen, Ammonia	0.44	mg/L	0.040	0.020	1		08/10/15 10:25	7664-41-7	
Phosphate, Ortho Low Level									
Analytical Method: SM 4500-P E									
Orthophosphate as P	0.11	mg/L	0.0050	0.0017	1		07/30/15 16:22		

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ANALYTICAL RESULTS

Project: FMC RCRA
Pace Project No.: 10316268

Sample: 507183		Lab ID: 10316268011		Collected: 07/30/15 08:05		Received: 07/31/15 10:00		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Cadmium	ND	mg/L	0.0030	0.00065	1	08/02/15 15:28	08/06/15 17:20	7440-43-9	
Potassium	13.5	mg/L	2.5	0.13	1	08/02/15 15:28	08/04/15 23:09	7440-09-7	
6020 MET ICPMS Analytical Method: EPA 6020 Preparation Method: EPA 3020									
Arsenic	0.015	mg/L	0.00050	0.00011	1	08/02/15 15:41	08/07/15 17:08	7440-38-2	
Selenium	0.0043	mg/L	0.00050	0.00020	1	08/02/15 15:41	08/07/15 17:08	7782-49-2	
300.0 IC Anions Analytical Method: EPA 300.0									
Chloride	103	mg/L	6.0	3.0	5		08/01/15 00:03	16887-00-6	
Fluoride	0.32	mg/L	0.050	0.0036	1		07/31/15 16:18	16984-48-8	
Nitrate as N	1.8	mg/L	0.10	0.050	1		07/31/15 16:18	14797-55-8	
Sulfate	215	mg/L	6.0	3.0	5		08/01/15 00:03	14808-79-8	
350.1 Ammonia Analytical Method: EPA 350.1									
Nitrogen, Ammonia	ND	mg/L	0.040	0.020	1		08/12/15 15:53	7664-41-7	
Phosphate, Ortho Low Level Analytical Method: SM 4500-P E									
Orthophosphate as P	0.070	mg/L	0.0050	0.0017	1		07/31/15 17:00		

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ANALYTICAL RESULTS

Project: FMC RCRA
Pace Project No.: 10316268

Sample: 507601		Lab ID: 10316268018		Collected: 07/30/15 13:05		Received: 07/31/15 10:00		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Cadmium	0.0048	mg/L	0.0030	0.00065	1	08/02/15 15:28	08/06/15 18:32	7440-43-9	
Potassium	1240	mg/L	25.0	1.3	10	08/02/15 15:28	08/10/15 09:27	7440-09-7	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3020									
Arsenic	0.14	mg/L	0.00050	0.00011	1	08/02/15 15:41	08/07/15 18:23	7440-38-2	
Selenium	0.00028	mg/L	0.00050	0.00020	1	08/02/15 15:41	08/07/15 18:23	7782-49-2	
SM4500F-C Fluoride									
Analytical Method: SM 4500F/C									
Fluoride	0.10	mg/L	1.0	0.051	1		08/08/15 14:34	16984-48-8	
300.0 IC Anions									
Analytical Method: EPA 300.0									
Chloride	344	mg/L	6.0	3.0	5		08/01/15 02:06	16887-00-6	
Fluoride	41.8	mg/L	2.5	0.18	50		08/01/15 09:07	16984-48-8	
Nitrate as N	ND	mg/L	0.10	0.050	1		07/31/15 18:19	14797-55-8	
Sulfate	248	mg/L	6.0	3.0	5		08/01/15 02:06	14808-79-8	
350.1 Ammonia									
Analytical Method: EPA 350.1									
Nitrogen, Ammonia	9.9	mg/L	0.40	0.20	10		08/12/15 18:18	7664-41-7	
Phosphate, Ortho Low Level									
Analytical Method: SM 4500-P E									
Orthophosphate as P	190	mg/L	12.5	4.4	2500		07/31/15 17:16		

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ANALYTICAL RESULTS

Project: FMC RCRA
Pace Project No.: 10316268

Sample: 507701		Lab ID: 10316268006		Collected: 07/29/15 15:40		Received: 07/30/15 10:00		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Cadmium	ND	mg/L	0.0030	0.00065	1	08/01/15 14:53	08/03/15 01:43	7440-43-9	
Potassium	0.140	mg/L	2.5	0.13	1	08/01/15 14:53	08/03/15 01:43	7440-09-7	
6020 MET ICPMS Analytical Method: EPA 6020 Preparation Method: EPA 3020									
Arsenic	ND	mg/L	0.00050	0.00011	1	08/01/15 14:37	08/07/15 04:01	7440-38-2	
Selenium	ND	mg/L	0.00050	0.00020	1	08/01/15 14:37	08/07/15 04:01	7782-49-2	
300.0 IC Anions Analytical Method: EPA 300.0									
Chloride	ND	mg/L	1.2	0.60	1		07/30/15 22:19	16887-00-6	
Fluoride	ND	mg/L	0.050	0.0036	1		07/30/15 22:19	16984-48-8	
Nitrate as N	ND	mg/L	0.10	0.050	1		07/30/15 22:19	14797-55-8	
Sulfate	ND	mg/L	1.2	0.60	1		07/30/15 22:19	14808-79-8	
350.1 Ammonia Analytical Method: EPA 350.1									
Nitrogen, Ammonia	ND	mg/L	0.040	0.020	1		08/10/15 10:29	7664-41-7	
Phosphate, Ortho Low Level Analytical Method: SM 4500-P E									
Orthophosphate as P	ND	mg/L	0.0050	0.0017	1		07/30/15 16:24		

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ANALYTICAL RESULTS

Project: FMC RCRA
Pace Project No.: 10316268

Sample: 507BTS Lab ID: 10316268020 Collected: 07/30/15 14:00 Received: 07/31/15 10:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Cadmium	ND	mg/L	0.0030	0.00065	1	08/02/15 15:28	08/06/15 19:10	7440-43-9	
Potassium	6.8	mg/L	2.5	0.13	1	08/02/15 15:28	08/10/15 10:04	7440-09-7	
6020 MET ICPMS Analytical Method: EPA 6020 Preparation Method: EPA 3020									
Arsenic	0.0046	mg/L	0.00050	0.00011	1	08/02/15 15:41	08/07/15 18:27	7440-38-2	
Selenium	0.0012	mg/L	0.00050	0.00020	1	08/02/15 15:41	08/07/15 18:27	7782-49-2	
300.0 IC Anions Analytical Method: EPA 300.0									
Chloride	30.2	mg/L	1.2	0.60	1		07/31/15 18:35	16887-00-6	
Fluoride	0.54	mg/L	0.050	0.0036	1		07/31/15 18:35	16984-48-8	
Nitrate as N	2.8	mg/L	0.10	0.050	1		07/31/15 18:35	14797-55-8	
Sulfate	58.8	mg/L	1.2	0.60	1		07/31/15 18:35	14808-79-8	
350.1 Ammonia Analytical Method: EPA 350.1									
Nitrogen, Ammonia	ND	mg/L	0.040	0.020	1		08/12/15 16:06	7664-41-7	
Phosphate, Ortho Low Level Analytical Method: SM 4500-P E									
Orthophosphate as P	0.76	mg/L	0.050	0.017	10		07/31/15 17:15		

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ANALYTICAL RESULTS

Project: FMC RCRA
Pace Project No.: 10316268

Sample: 507CDI		Lab ID: 10316268005		Collected: 07/29/15 15:25		Received: 07/30/15 10:00		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Cadmium	ND	mg/L	0.0030	0.00065	1	08/01/15 14:53	08/03/15 01:39	7440-43-9	
Potassium	0.28 J	mg/L	2.5	0.13	1	08/01/15 14:53	08/03/15 01:39	7440-09-7	
6020 MET ICPMS		Analytical Method: EPA 6020 Preparation Method: EPA 3020							
Arsenic	ND	mg/L	0.00050	0.00011	1	08/01/15 14:37	08/07/15 03:56	7440-38-2	
Selenium	ND	mg/L	0.00050	0.00020	1	08/01/15 14:37	08/07/15 03:56	7782-49-2	
300.0 IC Anions		Analytical Method: EPA 300.0							
Chloride	ND	mg/L	1.2	0.60	1		07/30/15 22:04	16887-00-6	
Fluoride	ND	mg/L	0.050	0.0036	1		07/30/15 22:04	16984-48-8	
Nitrate as N	ND	mg/L	0.10	0.050	1		07/30/15 22:04	14797-55-8	
Sulfate	ND	mg/L	1.2	0.60	1		07/30/15 22:04	14808-79-8	
350.1 Ammonia		Analytical Method: EPA 350.1							
Nitrogen, Ammonia	ND	mg/L	0.040	0.020	1		08/10/15 10:27	7664-41-7	
Phosphate, Ortho Low Level		Analytical Method: SM 4500-P E							
Orthophosphate as P	ND	mg/L	0.0050	0.0017	1		07/30/15 16:23		

REPORT OF LABORATORY ANALYSIS

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Date: 08/13/2015 11:06 AM

10316268

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TECHNICAL REVIEW ACTION SUMMARY

TECHNICAL REVIEW ACTION SUMMARY
SDG 10316268

Arsenic

Cadmium J1, J+1, U1

Potassium

Selenium J-1

Phosphorus

If the field is left blank no actions or qualifications were necessary.

- | | | |
|-----|---|----------------------------------------------------------------------------------------------------------------------------|
| J1 | - | Positive result <PQL is flagged as estimated (J) due to uncertainty at the low level. |
| J+1 | - | Positive results <2 PQL are flagged as estimated with the potential for high bias (J+) due to non-compliant CRI stability. |
| J-1 | - | Results <2 PQL are flagged as estimated with the potential for low bias (J-) due to non-compliant CRI stability. |
| U1 | - | Positive result is flagged as not-detected at the reported value (U) due to blank contamination. |

SAMPLE ID CODES

SAMPLE SUMMARY

Project: FMC RCRA
Pace Project No.: 10316268

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10316268001	507115	Water	07/29/15 12:00	07/30/15 10:00
10316268002	507166	Water	07/29/15 12:40	07/30/15 10:00
10316268003	507113	Water	07/29/15 13:20	07/30/15 10:00
10316268004	507168	Water	07/29/15 14:50	07/30/15 10:00
10316268005	507CDI	Water	07/29/15 15:25	07/30/15 10:00
10316268006	507701	Water	07/29/15 15:40	07/30/15 10:00
10316268007	507104	Water	07/29/15 15:50	07/30/15 10:00
10316268008	507165	Water	07/29/15 17:40	07/31/15 10:00
10316268009	507167	Water	07/29/15 18:20	07/31/15 10:00
10316268010	507158	Water	07/29/15 19:05	07/31/15 10:00
10316268011	507183	Water	07/30/15 08:05	07/31/15 10:00
10316268012	507121A	Water	07/30/15 08:50	07/31/15 10:00
10316268013	507108A	Water	07/30/15 09:30	07/31/15 10:00
10316268014	507123 A,B,C	Water	07/30/15 10:15	07/31/15 10:00
10316268015	507122	Water	07/30/15 11:00	07/31/15 10:00
10316268016	507155	Water	07/30/15 12:00	07/31/15 10:00
10316268017	507156	Water	07/30/15 12:40	07/31/15 10:00
10316268018	507601	Water	07/30/15 13:05	07/31/15 10:00
10316268019	507157 A,B,C	Water	07/30/15 13:30	07/31/15 10:00
10316268020	507BTS	Water	07/30/15 14:00	07/31/15 10:00

REPORT OF LABORATORY ANALYSIS

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LABORATORY CASE NARRATIVE

PROJECT NARRATIVE

Project: FMC RCRA
Pace Project No.: 10316268

Method: EPA 6010
Description: 6010 MET ICP
Client: FMC
Date: August 13, 2015

General Information:

20 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MPRP/56575

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10316058019

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 2038938)
 - Potassium
- MSD (Lab ID: 2038939)
 - Potassium

QC Batch: MPRP/56634

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10316268014, 10316268019

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 2038903)
 - Potassium
- MSD (Lab ID: 2038902)
 - Potassium
- MSD (Lab ID: 2038904)
 - Potassium

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: FMC RCRA
Pace Project No.: 10316268

Method: EPA 6010C
Description: 6010C MET ICP
Client: FMC
Date: August 13, 2015

General Information:

4 samples were analyzed for EPA 6010C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FMC RCRA
Pace Project No.: 10316268

Method: EPA 6020
Description: 6020 MET ICPMS
Client: FMC
Date: August 13, 2015

General Information:

20 samples were analyzed for EPA 6020. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3020 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: FMC RCRA
Pace Project No.: 10316268

Method: SM 4500F/C
Description: SM4500F-C Fluoride
Client: FMC
Date: August 13, 2015

General Information:

4 samples were analyzed for SM 4500F/C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: FMC RCRA
Pace Project No.: 10316268

Method: EPA 300.0
Description: 300.0 IC Anions
Client: FMC
Date: August 13, 2015

General Information:

20 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/24033

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10316058019, 10316268001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 2036737)
 - Chloride
 - Fluoride
 - Sulfate
- MS (Lab ID: 2036739)
 - Chloride
 - Fluoride
 - Sulfate
- MSD (Lab ID: 2036738)
 - Chloride
 - Fluoride
 - Sulfate
- MSD (Lab ID: 2036740)
 - Chloride
 - Fluoride
 - Sulfate

M6: Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

- MS (Lab ID: 2036737)
 - Nitrate as N

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: FMC RCRA
Pace Project No.: 10316268

Method: EPA 300.0
Description: 300.0 IC Anions
Client: FMC
Date: August 13, 2015

QC Batch: WETA/24033

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10316058019, 10316268001

M6: Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

- MSD (Lab ID: 2036738)
- Nitrate as N

QC Batch: WETA/24059

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10316268014, 10316268019

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 2039518)
 - Chloride
 - Fluoride
 - Nitrate as N
- MS (Lab ID: 2039520)
 - Chloride
 - Nitrate as N
 - Sulfate
- MSD (Lab ID: 2039519)
 - Chloride
 - Fluoride
 - Nitrate as N
- MSD (Lab ID: 2039521)
 - Chloride
 - Nitrate as N
 - Sulfate

M6: Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

- MS (Lab ID: 2039518)
 - Sulfate
- MSD (Lab ID: 2039519)
 - Sulfate

Additional Comments:

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PROJECT NARRATIVE

Project: FMC RCRA
Pace Project No.: 10316268

Method: EPA 350.1
Description: 350.1 Ammonia
Client: FMC
Date: August 13, 2015

General Information:

20 samples were analyzed for EPA 350.1. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/24218

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10316268014, 10316268019

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MSD (Lab ID: 2048408)
- Nitrogen, Ammonia

Additional Comments:

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PROJECT NARRATIVE

Project: FMC RCRA
Pace Project No.: 10316268

Method: SM 4500-P E
Description: Phosphate, Ortho Low Level
Client: FMC
Date: August 13, 2015

General Information:

20 samples were analyzed for SM 4500-P E. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/24034

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 10316058011, 10316058019

M6: Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

- MS (Lab ID: 2036822)
 - Orthophosphate as P
- MSD (Lab ID: 2036823)
 - Orthophosphate as P

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

10316268


Page: 2 of 2


Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	FMC	Report To:	Ericka Vallance, Hydrometrics	Attention:	Brian McGinnis
Address:	PO BOX 4111	Copy To:	Rob Hartman, MWH	Company Name:	FMC
	PO-CATELLO, ID 83202		Bruce Wallin, ECCI	Address:	PO BOX 4111 POCATELLO ID 83202
Email To:	bruce.wallin@fmc.com	Purchase Order No.:		Pace Guide Reference:	
Phone:		Project Name:	FMC	Pace Project Manager:	Kabor Xiong
Requested Due Date/TAT:		Project Number:	RCRA	Pace Profile #:	26442 line# 4

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DW DRINKING WATER WT WASTE WATER P PRODUCT SOL SOLID SL SLURRY WP WASTE PASTE AIR AIR OT OTHER TS TISSUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test Y/N	Requested Analysis Filtered (Y/N)					Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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2 ADDITIONAL COMMENTS		REUNQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS	
Fed Ex Air Bill # 8058 1698 6093		Walter Crane/Hydro metrics		7/29/15		16:15		Walter Crane		7/29/15		10:00		N	
**WQP: 300.0-Cl, SO4, Nitrate, F															
8010: Cadmium, Potassium, 6020: Arsenic, Selenium															
Total Phos by ICP on y on walls 108, 121, 122 & 123															

SAMPLER NAME AND SIGNATURE		Temp in °C		Received on		Custody Sealed		Samples Intact	
PRINT Name of SAMPLER: Walter Crane									
SIGNATURE of SAMPLER: Walter Crane									
DATE Signed (MM/DD/YY): 07/29/15									

	Document Name:	Document Revised: 23Feb2015
	Sample Condition Upon Receipt Form	Page 1 of 1
	Document No.: F-MN-L-213-rev.13	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt	Client Name: <u>FMC</u>	Project #: WO#: 10316268
	Courier: <input checked="" type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> USPS <input type="checkbox"/> Client <input type="checkbox"/> Commercial <input type="checkbox"/> Pace <input type="checkbox"/> SpeedDee <input type="checkbox"/> Other: _____ Tracking Number: <u>8058 1698 6082</u> <u>8058 1698 6093</u>	 10316268

Custody Seal on Cooler/Box Present? ☒ Yes ☐ No
 Seals Intact? ☒ Yes ☐ No
 Optional: Proj. Due Date: _____ Proj. Name: _____

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other: _____
 Temp Blank? ☒ Yes ☐ No

Thermometer ☐ B88A9130516413 ☒ B88A912167504 ☐ B88A0143310098
 Used: _____
 Type of Ice: ☒ Wet ☐ Blue ☐ None ☐ Samples on Ice, cooling process has begun

Cooler Temp Read (°C): 0.72.3
 Cooler Temp Corrected (°C): 0.72.3
 Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A
 Temp should be above freezing to 6°C
 Correction Factor: +1.2
 Date and Initials of Person Examining Contents: Jan 7/30/15

USDA Regulated Soil (☒ N/A, water sample)
 Did samples originate in a quarantine zone within the United States: AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or WA (check maps)?
☐ Yes ☐ No
 Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

		COMMENTS:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72 hr)?	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>At the time</u>
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered Volume Received for Dissolved Tests?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. <u>7/30/15</u> Note if sediment is visible in the dissolved container
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes Date/Time/ID/Analysis Matrix: <u>WT</u>		
All containers needing acid/base preservation have been checked?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <input checked="" type="checkbox"/> HNO ₃ <input checked="" type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HCl Sample #: <u>1-18</u> Initial when completed: _____ Lot # of added preservative: _____
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide) Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Headspace in VOA Vials (>6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

CLIENT NOTIFICATION/RESOLUTION

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Field Data Required? ☐ Yes ☐ No

Project Manager Review: Kuhn Xiong
 Date: July 30, 2015

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).